

Title (en)  
DIFFERENTIAL PRESSURE TRANSMITTER

Title (de)  
DIFFERENTIALDRUCKÜBERTRÄGER

Title (fr)  
ÉMETTEUR À PRESSION DIFFÉRENTIELLE

Publication  
**EP 2239716 A4 20140618 (EN)**

Application  
**EP 09706698 A 20090114**

Priority  
• JP 2009050367 W 20090114  
• JP 2008020718 A 20080131

Abstract (en)  
[origin: EP2239716A1] When the damping time constant  $D\ddot{A}$  is changed to  $D\ddot{A} = 0$ , the sampling period  $T_s$  is automatically changed from 100 ms to 50 ms. The sampling time  $t_s$  is automatically changed from 60 ms to 30 ms. Thus, when the damping time constant  $D\ddot{A}$  is changed to  $D\ddot{A} = 0$ , a processing unit (3) samples an electrical signal corresponding to the pressure difference of a fluid detected by a differential pressure sensor (1) for the sampling time  $t_s=30\text{ms}$  in every sampling period  $T_s=50\text{ms}$ , and finds the measurement value #P of the differential pressure by performing a variety of operation processing including a linearization operation and a square root operation on the sampled electrical signal. In the operation processing, the processing unit (3) does not perform a damping operation.

IPC 8 full level  
**G08C 13/00** (2006.01); **G01L 13/00** (2006.01); **G01L 19/00** (2006.01)

CPC (source: EP US)  
**G01L 19/00** (2013.01 - EP US)

Citation (search report)  
• [X] JP 2003083830 A 20030319 - YOKOGAWA ELECTRIC CORP  
• [I] FR 2808591 A1 20011109 - BOSCH GMBH ROBERT [DE]  
• [A] JP H05113379 A 19930507 - SHIMADZU CORP  
• See references of WO 2009096224A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
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